

PTO/SB/08A (08-03)

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	09/937,784
Filing Date	September 28, 2001
First Named Inventor	Daniel Henry Densham
Art Unit	1634
Examiner Name	Bradley L. Sisson
Attorney Docket Number	GJE-78

Sheet 1 of 3

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U1	US-			
	U2	US-			
	U3	US-			
	U4	US-			
	U5	US-			
	U6	US-			
	U7	US-			
	U8	US-			
	U9	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
BJS	F1	EP 0589867 B1	04-10-1996	Pharmacia Biosensor AB	All	
BJS	F2	EP 0648328 B1	01-21-1998	Biacore Aktieboolag	All	
	F3					
	F4					
	F5					
	F6					

Examiner
Signature

B. J. Sisson

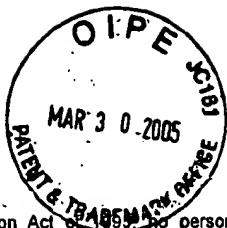
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
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		Filing Date	September 28, 2001		
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		Group Art Unit	1634		
		Examiner Name	Bradley L. Sisson		
Sheet	2	of	3	Attorney Docket Number	GJE-78

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
B.L.S.	R1	BIRD, L.E. <i>et al.</i> "Characterisation of <i>Bacillus stearothermophilus</i> PcrA helicase: evidence against an active rolling mechanism" <i>Nucleic Acids Res.</i> , 1998, pp. 2686-2693, Vol. 26.	
	R2	JONSSON, U. <i>et al.</i> "Real-Time Biospecific Interaction Analysis Using Surface Plasmon Resonance and a Sensor Chip Technology" <i>Biotechniques</i> , 1991, pp. 620-627, Vol. 11.	
	R3	LOFAS, S. <i>et al.</i> "Methods for site controlled coupling to carboxymethyldextran surfaces in surface plasmon resonance sensors" <i>Biosens. Bioelectron.</i> , 1995, pp. 813-822, Vol. 10.	
	R4	ABDEL-MONEM, M. <i>et al.</i> "Enzymic Unwinding of DNA. 2. Chain Separation by an ATP-Dependent DNA Unwinding Enzyme" <i>Eur. J. Biochem.</i> , 1976, pp. 411-449, Vol. 65.	
	R5	ABDEL-MONEM, M. <i>et al.</i> "Enzymic Unwinding of DNA. 1. Purification and Characterization of a DNA-Dependent ATPase from <i>Escherichia coli</i> " <i>Eur. J. Biochem.</i> , 1976, pp. 431-440, Vol. 65.	
	R6	EGELMAN, E. <i>et al.</i> "Bacteriophage T7 helicase/primase proteins form rings around single-stranded DNA that suggest a general structure for hexameric helicases" <i>Proc. Natl. Acad. Sci. USA</i> , 1995, pp. 3869-3873, Vol. 92.	
	R7	STASIAK, A. <i>et al.</i> "The <i>Escherichia coli</i> RuvB branch migration protein forms double hexameric rings around DNA" <i>Proc. Natl. Acad. Sci. USA</i> , 1994, pp. 7618-7622, Vol. 91.	
	R8	YU, X. <i>et al.</i> "The Hexameric <i>E.coli</i> DnaB Helicase can Exist in Different Quarternary States" <i>J. Mol. Biol.</i> , 1996, pp. 7-14, Vol. 259.	
	R9	DEAN, F.B. <i>et al.</i> "The Simian Virus 40 T Antigen Double Hexamer Assembles around the DNA at the Replication Origin" <i>J. Biol. Chem.</i> , 1992, pp. 14129-14137, Vol. 267.	
	R10	PETIT, M-A. <i>et al.</i> "PcrA is an essential DNA helicase of <i>Bacillus subtilis</i> fulfilling functions both in repair and rolling-circle replication" <i>Mol. Microbiol.</i> , 1998, pp. 261-273, Vol. 29.	
	R11	IORDANESCU, S. <i>et al.</i> "Characterization of the <i>Staphylococcus aureus</i> chromosomal gene <i>pcrA</i> , identified by mutations affecting plasmid pT181 replication" <i>Mol. Microbiol.</i> , 1993, pp. 185-192, Vol. 241.	
B.L.S.	R12	HA, T. <i>et al.</i> "Single-molecule fluorecence spectroscopy of enzyme conformational dynamics and cleavage mechanism" <i>Proc. Natl. Acad. Sci. USA</i> , 1996, pp 893-898, Vol. 96.	

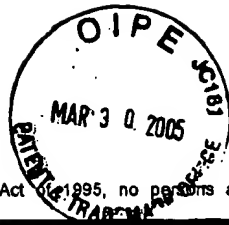
Examiner Signature	B. L. Sisson	Date Considered	4-28-05
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BH	R13	DILLINGHAM, M.S. <i>et al.</i> "Demonstration of Unidirectional Single-Stranded DNA Translocation by PcrA Helicase: Measurement of Step Size and Translocation Speed" <i>Biochemistry</i> , 2000, pp. 205-212, Vol. 39.	
	R14	BRAMHILL, D. <i>et al.</i> "A Model for Initiation at Origins of DNA Replication" <i>Cell</i> , 1988, pp. 915-918, Vol. 54.	
	R15	SCHNOS <i>et al.</i> "Initiation Protein Induced Helix Destabilization at the λ Origin: A Prepriming Step in DNA Replication" <i>Cell</i> , 1988, pp. 385-395, Vol. 52.	
BZ	R16	Biacore Product Catalog, 2005.	
	R17		
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	R22		
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	R25		

Examiner Signature	<i>B. L. Sisson</i>	Date Considered	4-20-05
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